Manitoba

ANNUAL REPORT

1983 and 1984

Manitoba Swine Record of
Performance Program
and
Commercial Hog
Improvement Program

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SWINE RECORD OF PERFORMANCE PROGRAM

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PREPARED BY

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TABLE OF CONTENTS

		PAGE NO.
General Summary		1
ROP Procedures		4-7
Tables 1 & 2.	Home Tested Boar and Gilt Performance by Breed, 1983	8
Tables 3 & 4.	Home Tested Boar and Gilt Performance by Breed, 1984	9
Tables 5 & 6.	Summaries of ROP Home Testing Activity, 1983 & 1984	10
Tables 7 & 8.	Summaries of Home Tested Boars and Gilts, 1980-1984	11
Tables 9 & 10.	Performance of Home Tested Offspring from A.I. Meetings, 1983 & 1984	12
Tables 11 & 12.	Station Tested Boar Performance by Breed, 1983 & 1984	13
Tables 13 & 14.	Boar Test Station Activity, 1983 & 1984	14
Table 15.	Summary of Station Tested Boars, 1980-1984	15
Figure 1.	Average Adjusted Backfat of ROP Tested Swine, 1973-1984	16
Table 16.	Past and Present Home and Station Test Performance Averages by Breed for Breeders ROP Testing During 1983 & 1984	17-34
CHIP Procedures and Services		35-37
Table 17.	Number of Gilts Tested by Region, 1975-1984	38
Table 18.	Summary of CHIP Testing, 1983	38
Table 19.	Summary of CHIP Testing, 1984	38
Table 20.	Hog Marketings of CHIP Herds by Agricultural Region, 1983 & 1984	39
Figure 2.	Hog Marketings of CHIP Participants Compared to the Provincial Average	40
Table 21.	Herds Participating in CHIP Backfat Testing Service, 1983 & 1984	41

GENERAL SUMMARY

ROP Home Test

During 1983, 4680 pigs were home-tested in Manitoba under the Federal-Provincial Swine ROP Program. Boar testing increased by three percent from 1679 boars in 1982 to 1894 in 1983. Gilt testing increased by ten percent to 2786 gilts. A total of 4044 pigs were home-tested in 1984. Special recognition is due to the breeders testing over 200 animals:

	1983	1984
University of Manitoba, Winnipeg	715	722
McLean Brothers, Pilot Mound	644	501
Designed Genetics, Selkirk	365	387
Keith Patterson, Sanford	308	330
Jerry Friesen, Altona	310	-
John Sawatzky, Altona	201	-
Lorne Penner, Ste. Anne	-	259

The overall average adjusted backfat thickness of home-tested stock continued to decline in 1983 (1984) to 12.3 (12.0) mm for boars and 14.0 (13.8) mm for gilts. During the past four years (1980-1984) average backfat thickness of boars and gilts dropped 24 percent and 19 percent, respectively. This availability of leaner breeding stock has undoubtedly contributed to the improved quality of market hogs in the province. The percentage of Manitoba hogs grading 102 index and higher increased 15.4 points from 59.1 percent in 1980 to 74.5 percent in 1984, with the latter figure 1.3 percent above the national average and third next to the Atlantic provinces and Ontario. Average adjusted age at 90 kg of home-tested gilts in 1984 improved by seven days from 1980, while growth performance of home-tested boars improved by five days over the same period. Yorkshire and Crossbred boars and gilts were the most commonly-tested animals in both 1983 and 1984.

ROP Station Test

In February 1983, a TGE outbreak of unknown origin occurred at the Brandon Test Station. It was the first major disease problem encountered in the station's 15 years of operation. All boars on test were slaughtered, followed by a three-month closure for cleanup, including fumigation and complete disinfection of the barn. As well, additional entrance and test station health regulations were established including:

- All herds submitting pigs to the station must blood test a sample of their sow herd within 30 days of start of test and be TGE negative.
- Fill periods limited to a maximum of two weeks in length. Number of test periods reduced to three per year to ensure complete barn all-in, all-out practice. Previously, each wing of the barn was filled alternatively every second month to allow six test groups per year.

Due to these changes, only two test periods were completed in 1983 and three in 1984. Average backfat performance of the 381 boars evaluated remained basically unchanged from 1982. Slight improvement was shown in daily gain and feed conversion.

Five station tested boar sales were held during the two-year period. A total of 42 boars were sold, with the price averaging $530 in 1983 and $413.52 in 1984.

Recipients of the annual Manitoba Swine Breeders' Association Trophy for the highest indexing boar at the test station in 1983 were Garry and Lynne Tolton, Newdale and in 1984, Lionel and Laura Henderson, Minitonas. Performance levels of the two boars were:

Year	Breed of Boar	Adj. B.F.	Ave. Daily Gain	Station Index
1983	Yorkshire	9.9 mm	0.98 kg	185
1984	Landrace	12.0 mm	1.08 kg	170

CHIP

A total of 2095 gilts were evaluated under the Commercial Hog Improvement Program in 1983 and 1984. Quality of hog marketings for CHIP herds continued well above the provincial average for both years. The percentage of hogs indexing 102 or higher in CHIP herds was 12.9 and 10.5 percentage points higher than the provincial average for 1983 and 1984, respectively.

ROP PROCEDURES

Swine ROP is a Federal-Provincial testing program designed to identify genetically superior breeding stock in Manitoba in order to upgrade the Provincial and National swine herd. In Manitoba, testing is done by Agriculture Canada personnel with aid from Manitoba Agriculture. The program takes direction from the Manitoba Swine ROP Advisory Committee.

Committee members during 1983 and 1984 were:

			1983	1984
Dr. D. Hacker (Chairman)	-	Chief, Swine Section Animal Industry Branch	X	X
Mr. J. Kidd (Secretary)	-	District Production Officer Livestock Division, Ag. Canada	X	X
Mr. C. Campbell	-	Sub-District Production Officer Livestock Division, Ag. Canada	X	X
Mr. G. Tolton	-	Manitoba Swine Breeders' Association	X	X
Mr. R. Hedley	-	Manitoba Swine Breeders' Association	X	
Mr. K. Ludlam	-	Manitoba Swine Breeders' Association		X
Mr. O. Nicholson	-	Manitoba Lacombe Breeders' Association	X	X
Mr. G. Schade	-	Manitoba Landrace Breeders' Association	X	X
Mr. R. Phillips	-	Manitoba Hog Producers' Marketing Board	X	X
Mr. D. Zarn	-	Manitoba Hog Producers' Marketing Board	X	X
Dr. R. Parker	-	Department of Animal Science University of Manitoba	X	X
Dr. R. McKay	-	Animal Science Section Ag. Canada Research Station	X	X
Mr. C. Froese	-	Swine Program Specialist Animal Industry Branch	X	X

The ROP program offers two types of testing, the home test and the station test.

Home Test

This is available free of charge to seedstock producers who meet the following criteria:

- own and maintain a breeding herd of identifiable ancestry
- identify legibly all breeding animals in the herd
- maintain complete breeding and management records of the herd

Animals are evaluated on the farm for carcass quality (backfat thickness) and growth rate (age at 90 kg) by personnel from Agriculture Canada or Manitoba Agriculture. Age and backfat thickness are adjusted to a standard 90 kg live-weight, and then combined into a single composite score or index. The index is an expression of the overall genetic worth of the animal compared to its contemporaries tested in the previous 12 months. Performance comparisons among home tested animals are only valid within the same herd.

During 1983 and 1984, home testing services for purebred herds were provided by the following:

	1983		1984	
Individual	Number Visits	Number Tested	Number Visits	Number Tested
H. Bouw Agriculture Canada Winnipeg, MB Phone: 949-2213	1	12	1	9
C. Campbell Agriculture Canada Brandon, MB Phone: 728-7597	2	12	1	12
M. Chenier Agriculture Canada Winnipeg, MB Phone: 949-2213	7	124	0	0

Individual	1983 Number Visits	1983 Number Tested	1984 Number Visits	1984 Number Tested
B. Cotton Manitoba Agriculture Brandon, MB Phone: 728-5724	28	347	21	182
M. Deacon Agriculture Canada Winnipeg, MB Phone: 949-2213	93	2695	72	1924
H. Greaves Manitoba Agriculture Somerset, MB Phone: 744-2013	25	614	22	269
I. Janzen Agriculture Canada Brandon, MB Phone: 728-7597	2	30	9	245
H. McLean Agriculture Canada Brandon, MB Phone: 728-7597	11	145	10	105
O. Olsen Manitoba Agriculture Swan River, MB Phone: 734-3417	49	554	64	558
R. Pelesh Agriculture Canada Winnipeg, MB Phone: 949-2213	0	0	23	683
M. Sigurdson Manitoba Agriculture Arborg, MB Phone: 376-5213	11	147	10	57

Station Test

This testing program enables valid comparisons on the genetic worth of pigs originating from different herds. Participating herds must be actively enrolled in a recognized herd health program and declared free from clinical signs of contagious disease.

The test station is located on 34th Avenue, N., on the southwest corner of the Agriculture Canada Research Station property in Brandon. Boars are delivered to the station when they weigh between 18 kg and 30 kg. An 18% crude protein pretest ration is fed until the pen average weight reaches 30 kg, at which time the boars start test. During the test period, a 16% crude protein barley-soybean ration is fed ad libitum. The test ends 14 weeks later, or when the average weight of the penmates reaches 90 kg. At this time, average backfat thickness, average daily gain, and average feed conversion are determined for each boar. An index is calculated by comparing the individual's backfat thickness and growth rate to the average values of the test group. Boars indexing less than 95 are sent to slaughter, while those 96 or higher may be returned to the breeder or offered for sale. Only boars with an index value of 100 or higher are eligible for station-tested boar sales sponsored by the Manitoba Swine Breeders' Association.

During 1983 and 1984, station testing services were provided by:

Hector McLean
Agriculture Canada, Brandon, MB
Phone: 728-8597

Colin Campbell
Agriculture Canada, Brandon, MB
Phone: 728-8597

TABLE 1. HOME TESTED BOAR PERFORMANCE BY BREED, 1983.

BREED	NUMBER HERDS	NUMBER TESTED	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)
Yorkshire	27	829	12.2	172
Landrace	8	220	12.8	164
Lacombe	3	51	13.2	158
Hampshire	9	144	12.0	163
Duroc Jersey	7	133	12.9	163
Crossbred	10	238	12.4	170
Berkshire	1	51	11.2	163
Spot	1	26	12.2	174
Managra	1	202	12.3	155
All Breeds	67*	1894	12.3	167

*This figure represents 34 individual breeders, a breeder may have more than one purebred herd.

TABLE 2. HOME TESTED GILT PERFORMANCE BY BREED, 1983.

BREED	NUMBER HERDS	NUMBER TESTED	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)
Yorkshire	30	1099	14.2	180
Landrace	8	238	13.7	168
Lacombe	2	49	14.7	162
Hampshire	6	86	12.9	171
Duroc Jersey	7	118	13.9	164
Crossbred	18	859	14.2	184
Berkshire	1	11	11.6	164
Managra	1	326	13.6	164
All Breeds	75*	2786	14.0	177

*This figure represents 36 individual breeders, a breeder may have more than one purebred herd.

TABLE 3. HOME TESTED BOAR PERFORMANCE BY BREED, 1984.

BREED	NUMBER HERDS	NUMBER TESTED	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)
Yorkshire	26	605	12.0	172
Landrace	10	148	12.9	169
Lacombe	2	63	13.0	164
Hampshire	10	165	11.7	169
Duroc Jersey	7	102	12.6	167
Crossbred	11	229	11.8	170
Berkshire	1	32	10.7	163
Managra	1	208	11.5	156
All Breeds	67*	1552	12.0	168

*This figure represents 33 individual breeders, a breeder may have more than one purebred herd.

TABLE 4. HOME TESTED GILT PERFORMANCE BY BREED, 1984.

BREED	NUMBER HERDS	NUMBER TESTED	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)
Yorkshire	27	965	14.0	182
Landrace	9	240	13.8	170
Lacombe	2	58	14.5	167
Hampshire	6	79	12.3	173
Duroc Jersey	6	101	13.8	165
Crossbred	16	745	14.0	178
Berkshire	1	1	12.0	164
Managra	1	284	13.4	159
All Breeds	68*	2492	13.8	176

*This figure represents 35 individual breeders, a breeder may have more than one purebred herd.

TABLE 5. SUMMARY OF 1983 ROP HOME TESTING ACTIVITY.

NUMBER OF PIGS TESTED PER FARM	NUMBER OF BREEDERS	PERCENT OF TOTAL BREEDERS	TOTAL PIGS TESTED	PERCENT OF TOTAL PIGS
Less than 20	6	17	71	2
20 - 50	11	30	388	8
51 - 100	4	11	290	6
101 - 200	9	25	1388	30
201+	6	17	2543	54
TOTAL	36	100	4680	100

TABLE 6. SUMMARY OF 1984 ROP HOME TESTING ACTIVITY.

NUMBER OF PIGS TESTED PER FARM	NUMBER OF BREEDERS	PERCENT OF TOTAL BREEDERS	TOTAL PIGS TESTED	PERCENT OF TOTAL PIGS
Less than 20	9	24	77	2
20 - 50	10	27	312	8
51 - 100	7	19	544	13
101 - 200	6	16	912	23
201+	5	14	2199	54
TOTAL	37	100	4044	100

TABLE 7. SUMMARY OF HOME-TESTED BOARS, 1980-1984.

YEAR	NUMBER TESTED	AVERAGE BACKFAT ADJUSTED TO 90 kg (mm)	AVERAGE AGE ADJUSTED TO 90 kg (days)
1980	1735	15.7	173
1981	1496	13.5	169
1982	1679	12.9	170
1983	1894	12.3	167
1984	1552	12.0	168

TABLE 8. SUMMARY OF HOME-TESTED GILTS, 1980-1984.

YEAR	NUMBER TESTED	AVERAGE BACKFAT ADJUSTED TO 90 kg (mm)	AVERAGE AGE ADJUSTED TO 90 kg (days)
1980	2826	17.0	183
1981	2812	15.2	182
1982	2540	14.9	176
1983	2786	14.0	177
1984	2492	13.8	176

TABLE 9. PERFORMANCE OF HOME TESTED OFFSPRING FROM A.I. MATINGS, 1983.

OFFSPRING BREED	NO. HERDS	NO. A.I. SIRES	NO. BOARS TESTED	AVE. ADJ. BACKFAT (mm)	AVE. ADJ. AGE (days)	NO. GILTS TESTED	AVE. ADJ. BACKFAT (mm)	AVE. ADJ. AGE (days)
Yorkshire	9	14	28	13.0	164	53	13.9	169
Landrace	3	10	16	12.8	174	17	14.1	172
Hampshire	2	2	8	10.5	158	6	13.2	163
Duroc	3	7	22	13.1	160	21	14.5	168
Crossbred	1	0	0	-	-	2	11.0	185
All Breeds	19*	33	74	12.7	164	99	14.0	169

*Represents 12 individual breeders, a breeder may have more than one breed.

TABLE 10. PERFORMANCE OF HOME TESTED OFFSPRING FROM A.I. MATINGS, 1984.

OFFSPRING BREED	NO. HERDS	NO. A.I. SIRES	NO. BOARS TESTED	AVE. ADJ. BACKFAT (mm)	AVE. ADJ. AGE (days)	NO. GILTS TESTED	AVE. ADJ. BACKFAT (mm)	AVE. ADJ. AGE (days)
Yorkshire	7	15	25	12.0	170	36	13.3	173
Landrace	1	3	6	14.4	165	8	13.3	159
Lacombe	1	1	2	14.9	166	0	-	-
Hampshire	1	10	28	12.1	168	11	13.6	172
Duroc	1	7	9	12.7	163	14	15.2	160
Crossbred	2	0	3	10.9	160	3	14.8	204
All Breeds	13*	36	73	12.4	167	72	13.8	170

*Represents 8 individual breeders, a breeder may have more than one breed.

TABLE 11. STATION TESTED BOAR PERFORMANCE BY BREED, 1983.

BREED	NUMBER ENTERING TEST	NUMBER COMPLETING TEST*	NUMBER HERDS	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)	AVERAGE DAILY GAIN (kg)	AVERAGE FEED:GAIN RATIO
Yorkshire	149	95	16	12.6	154	0.83	2.52
Landrace	56	41	3	13.6	154	0.86	2.61
Lacombe	2	2	1	12.6	145	0.90	2.48
Hampshire	15	13	3	12.3	144	1.03	2.42
Duroc Jersey	48	26	5	13.8	153	0.84	2.61
Crossbred	26	9	1	13.5	154	0.84	2.91
Spot	11	9	1	15.0	155	0.87	2.62
All Breeds	307	195	30**	13.1	153	0.85	2.57

*Due to disease outbreak, all boars from the second fill in 1983 were slaughtered prior to completing test.
**This figure represents 26 individual breeders, a breeder may have more than one purebred herd.

TABLE 12. STATION TESTED BOAR PERFORMANCE BY BREED, 1984.

BREED	NUMBER ENTERING TEST	NUMBER COMPLETING TEST	NUMBER HERDS	AVERAGE ADJUSTED BACKFAT (mm)	AVERAGE ADJUSTED AGE (days)	AVERAGE DAILY GAIN (kg)	AVERAGE FEED:GAIN RATIO
Yorkshire	132	102	16	13.2	150	0.87	2.40
Landrace	32	28	5	15.3	153	0.89	2.52
Lacombe	4	4	1	15.7	136	1.04	2.34
Hampshire	18	18	5	13.3	141	0.99	2.33
Duroc Jersey	20	20	4	16.6	143	1.01	2.30
Crossbred	15	12	3	12.4	146	0.95	2.32
Spot	2	2	1	16.1	141	0.96	2.41
All Breeds	223	186	35*	13.9	148	0.91	2.39

*This figure represents 23 individual breeders, a breeder may have more than one purebred herd.

TABLE 13. BOAR TEST STATION ACTIVITY, 1983

TEST PERIOD	NUMBER BOARS SUBMITTED	NUMBER HERDS	NUMBER BOARS DIED	NUMBER CULLED DUE TO INDEX	NUMBER CULLED DUE TO OTHER	NUMBER RETURNED TO BREEDERS	NUMBER SOLD	AVERAGE PRICE ($)
*Dec.-Mar./83	64	14	-	-	-	-	-	-
*Feb.-May /83	71	14	-	-	-	-	-	-
May -Aug./83	78	12	2	43	3	20	10	555.00
Sep.-Dec./83	94	11	5	12	41	31	5	480.00
TOTAL	307	51**	7	55	44	51	15	530.00

*Due to disease outbreak, all boars from these two fills were slaughtered.

**This figure represents 26 individual breeders, a breeder may have more than one purebred herd.

TABLE 14. BOAR TEST STATION ACTIVITY, 1984

TEST PERIOD	NUMBER BOARS SUBMITTED	NUMBER HERDS	NUMBER BOARS DIED	NUMBER CULLED DUE TO INDEX	NUMBER CULLED DUE TO OTHER	NUMBER RETURNED TO BREEDERS	NUMBER SOLD	AVERAGE PRICE ($)
Feb.-May /84	55	10	1	30	8	10	6	428.33
Jne.-Sep./84	112	15	3	37	37	22	13	408.85
Oct.-Jan./85	56	12	3	12	8	25	8	410.00
TOTAL	223	37*	7	79	53	47	27	413.52

*This figure represents 23 individual breeders, a breeder may have more than one purebred herd.

TABLE 15. SUMMARY OF STATION-TESTED BOARS, 1980-1984

YEAR	NUMBER TESTED	AVE. ADJ. BACKFAT (mm)	AVE. ADJ. AGE (days)	AVE. DAILY GAIN (kg)	AVE. FEED:GAIN RATIO
1980	321	14.8	149	0.87	2.48
1981	309	13.8	152	0.87	2.53
1982	168	13.9	151	0.86	2.43
1983	195	13.1	153	0.85	2.57
1984	186	13.9	148	0.91	2.39

FIGURE 1. AVERAGE ADJUSTED BACKFAT OF ROP TESTED SWINE (1973–82)

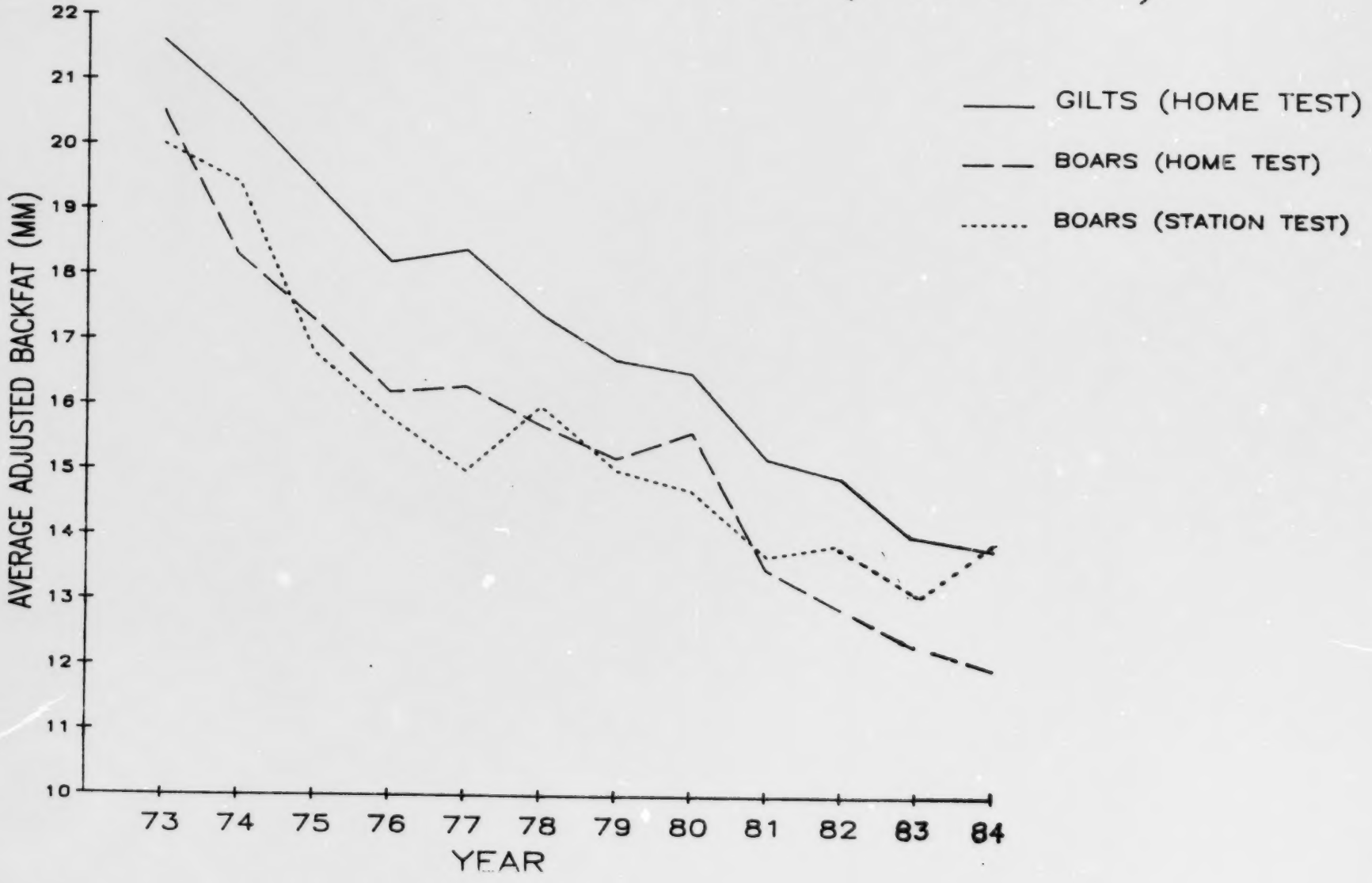

Table 16. Past and present home and station test performance averages by breed for breeders ROP testing during 1983 and 1984.

This table shows the performance test averages for each breeder who home and/or station tested pigs during 1983 and 1984. It also lists averages of all pigs home and station tested by each breeder during the five-year period of 1978-1982. An asterisk (*) indicates a new breeder who commenced testing in 1984.

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
YORKSHIRE											
W. Acheson Somerset, MB Phone: 744-2525	1978-82	119	14.2	163	149	15.1	166	16	14.6	0.88	2.51
	1983	15	12.9	167	26	13.8	166	4	12.8	0.88	2.64
	1984	27	11.6	162	45	11.9	168	7	12.4	0.91	2.32
G. Anderson Treherne, MB Phone: 723-2882	1978-82	6	17.4	198	1	16.3	197	0	-	-	-
	1983	8	16.9	191	4	16.0	184	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
G. Behrendt Langruth, MB Phone: 445-2292	1978-82	39	14.0	170	156	14.0	184	34	13.5	0.85	2.60
	1983	9	13.0	164	26	13.7	185	4	13.3	0.77	2.42
	1984	1	11.0	166	28	13.7	181	3	14.2	0.95	2.77
A. Brinkman Grandview, MB Phone: 548-2762	1978-82	21	12.8	192	24	15.9	191	2	14.0	0.89	2.52
	1983	7	11.0	179	11	12.5	182	0	-	-	-
	1984	5	11.2	177	13	14.3	174	0	-	-	-
D. Burton Swan River, MB Phone: 734-3647	1978-82	158	13.9	157	237	14.6	165	10	14.9	0.88	2.70
	1983	21	11.1	154	42	13.1	160	0	-	-	-
	1984	29	12.1	158	37	13.8	165	0	-	-	-

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
L. Burton Swan River, MB Phone: 734-4311	1978-82	29	13.7	148	46	14.9	160	2	14.7	0.67	3.69
	1983	14	12.6	158	12	13.8	158	0	-	-	-
	1984	11	12.1	159	7	14.0	164	2	13.6	0.76	2.41
G. Chappell Hamiota, MB Phone: 764-2435	1978-82	74	13.0	166	63	12.7	166	12	14.1	0.86	2.60
	1983	0	-	-	0	-	-	3	10.9	0.92	2.49
	1984	0	-	-	0	-	-	0	-	-	-
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	463	11.5	160	423	13.2	166	13	12.8	0.85	2.63
	1983	34	10.6	161	17	12.6	168	0	-	-	-
	1984	37	11.1	163	5	12.2	164	0	-	-	-
J. Curry Headingley, MB Phone: 889-5282	1978-82	58	13.0	184	99	15.1	196	24	13.3	0.83	2.53
	1983	19	9.8	183	24	10.9	182	1	12.1	0.81	2.48
	1984	7	11.6	192	8	11.9	197	0	-	-	-
Designed Genetics (P. Riese) Selkirk, MB Phone: 482-4941	1978-82	412	15.4	184	296	17.3	195	8	13.3	0.86	2.48
	1983	99	12.1	171	51	13.5	186	0	-	-	-
	1984	102	12.3	187	77	12.9	184	0	-	-	-
Ehrenberg Farms (G. Schade) Selkirk, MB Phone: 757-2136	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	4	14.0	155	6	11.8	155	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
R. Floyde McCreary, MB Phone: 835-2495	1978-82	26	16.0	161	42	17.4	159	38	16.5	0.92	2.45
	1983	14	12.9	151	1	12.0	152	7	12.3	0.81	2.58
	1984	5	10.8	139	0	-	-	11	13.7	0.86	2.39
J. Friesen Altona, MB Phone: 324-6226	1978-82	12	12.7	177	23	14.4	183	0	-	-	-
	1983	14	12.2	175	38	13.4	185	0	-	-	-
	1984	8	11.1	175	29	11.4	178	6	12.1	0.96	2.35
*Geisel Bros. Ochre River, MB Phone: 733-2208	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	1	18.0	153	6	16.7	153	1	17.8	1.10	2.29
J. Gerbrandt Grunthal, MB Phone: 434-6093	1978-82	41	12.6	173	38	14.1	176	0	-	-	-
	1983	13	11.8	174	9	14.0	180	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
F. Gilliard Belleview, MB Phone: 854-2960	1978-82	12	12.9	179	47	15.5	188	25	15.2	0.87	2.58
	1983	0	-	-	5	12.2	209	21	13.5	0.79	2.48
	1984	0	-	-	7	12.6	215	9	11.7	0.83	2.31
K. Gorrie Treherne, MB Phone: 723-2575	1978-82	21	17.0	173	43	16.7	177	9	15.1	0.87	2.57
	1983	12	14.8	172	8	15.9	167	0	-	-	-
	1984	7	13.7	146	4	14.5	147	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
Goudy Farms Stoughton, SK Phone: 457-2836	1978-82	-	-	-	-	-	-	53	14.3	0.87	2.55
	1983	-	-	-	-	-	-	4	10.8	0.72	2.77
	1984	-	-	-	-	-	-	0	-	-	-
*C. Harrison Treherne, MB Phone: 723-2793	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	5	13.4	233	10	13.8	231	0	-	-	-
R. Hedley Hamiota, MB Phone: 764-2196	1978-82	206	15.6	170	169	16.3	173	0	-	-	-
	1983	49	14.2	174	42	15.3	179	0	-	-	-
	1984	56	13.7	171	52	14.5	173	0	-	-	-
L. Henderson (Herd A) Minitonas, MB Phone: 547-2284	1978-82	31	13.6	178	59	14.6	184	22	13.4	0.90	2.56
	1983	14	12.3	161	14	12.4	168	2	16.2	0.92	2.41
	1984	11	11.5	173	17	12.6	176	1	13.0	0.82	2.50
L. Henderson (Herd B) Minitonas, MB Phone: 547-2284	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	6	12.5	183	7	13.7	185	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
H. Kjear Stonewall, MB Phone: 467-2618	1978-82	40	12.9	162	48	13.8	159	0	-	-	-
	1983	62	11.4	164	56	12.4	166	2	9.5	0.72	2.30
	1984	12	10.5	164	11	10.7	166	0	-	-	-

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
*C. Lachance Elie, MB Phone: 353-2471	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	6	11.6	0.92	2.28
L. Manness Domain, MB Phone: 736-4221	1978-82	284	14.9	169	749	16.1	178	13	16.4	0.92	2.58
	1983	27	11.1	180	76	13.1	192	0	-	-	-
	1984	5	9.8	210	0	-	-	0	-	-	-
McLean Bros. Pilot Mound, MB Phone: 825-2667	1978-82	213	14.2	189	559	18.4	207	7	14.3	0.88	2.35
	1983	240	11.9	183	365	15.5	190	16	12.6	0.86	2.60
	1984	138	11.4	175	344	15.1	197	20	14.7	0.87	2.46
*R. McLean Manitou, MB Phone: 242-2049	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	2	11.5	184	8	15.4	188	0	-	-	-
	1984	0	-	-	8	13.5	192	0	-	-	-
Moray Farms (C. G. Peters) New Bothwell, MB Phone: 355-4648	1978-82	0	-	-	8	13.0	186	0	-	-	-
	1983	1	9.0	185	18	12.4	189	0	-	-	-
	1984	2	13.0	206	2	13.0	191	0	-	-	-
W. Mortenson Govan, SK Phone: 484-4380	1978-82	-	-	-	-	-	-	107	13.4	0.84	2.47
	1983	-	-	-	-	-	-	13	11.9	0.88	2.53
	1984	-	-	-	-	-	-	8	12.9	0.86	2.37

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
O. Nicholson Dauphin, MB Phone: 638-7542	1978-82	57	15.1	166	88	15.7	169	4	14.9	0.92	2.37
	1983	20	12.6	155	38	14.7	151	1	11.1	0.95	2.50
	1984	20	12.2	166	29	14.4	172	5	13.4	0.88	2.32
A. Pantel Somerset, MB Phone: 744-2154	1978-82	17	13.1	182	9	13.8	181	12	14.9	0.86	2.42
	1983	15	12.6	163	3	14.0	134	4	14.3	0.90	2.47
	1984	5	17.0	170	0	-	-	0	-	-	-
K. Patterson Sanford, MB Phone: 736-2983	1978-82	0	-	-	61	16.7	196	0	-	-	-
	1983	0	-	-	15	14.7	196	0	-	-	-
	1984	0	-	-	42	14.0	177	0	-	-	-
A. Perreaux Redvers, SK Phone: 452-3992	1978-82	-	-	-	-	-	-	63	13.9	0.83	2.56
	1983	-	-	-	-	-	-	2	13.5	0.84	2.24
	1984	-	-	-	-	-	-	3	13.7	0.87	2.43
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	13	16.1	180	3	18.3	207	4	15.2	0.87	2.59
	1983	5	17.0	150	2	16.0	147	0	-	-	-
	1984	2	14.0	143	4	13.3	210	0	-	-	-
J. Sawatsky Altona, MB Phone: 324-6279	1978-82	37	15.1	176	24	16.1	180	0	-	-	-
	1983	24	13.7	188	31	15.2	186	0	-	-	-
	1984	20	12.4	178	13	14.2	176	8	11.6	0.80	2.39

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
B. Tolton Newdale, MB Phone: 849-2146	1978-82	34	13.8	159	60	15.3	161	17	13.6	0.81	2.45
	1983	7	14.0	162	24	15.0	164	6	12.7	0.83	2.54
	1984	7	12.3	164	19	14.7	170	4	16.4	0.83	2.65
G. Tolton Newdale, MB Phone: 849-2081	1978-82	57	12.9	172	91	14.0	183	75	15.0	0.85	2.51
	1983	24	12.5	173	16	13.1	173	5	11.7	0.82	2.50
	1984	16	11.8	181	24	12.9	187	8	12.4	0.87	2.35
University of Manitoba Winnipeg, MB Phone: 474-9383	1978-82	226	14.2	165	372	15.7	171	0	-	-	-
	1983	54	12.2	157	110	13.2	164	0	-	-	-
	1984	62	12.0	156	108	13.1	159	0	-	-	-
*H. Vandervoort Kelwood, MB Phone: 756-2694	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	9	13.0	164	16	13.8	166	0	-	-	-
LANDRACE											
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	35	9.6	161	37	10.2	167	0	-	-	-
	1983	34	10.7	166	8	12.4	170	0	-	-	-
	1984	11	10.3	163	0	-	-	0	-	-	-
J. Curry Headingley, MB Phone: 889-5282	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	5	10.8	203	9	12.6	199	0	-	-	-

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
Ehrenberg Farms (G. Schade) Selkirk, MB Phone: 757-2136	1978-82	232	15.5	159	181	16.3	161	54	16.0	0.88	2.56
	1983	81	13.5	151	97	13.5	154	8	14.6	0.83	2.43
	1984	41	12.7	162	106	13.4	158	4	15.3	0.94	2.38
J. Friesen Altona, MB Phone: 324-6226	1978-82	11	11.6	184	35	13.2	185	0	-	-	-
	1983	10	12.7	185	36	13.0	185	0	-	-	-
	1984	2	13.0	169	8	11.8	184	0	-	-	-
L. Henderson (Herd A) Minitonas, MB Phone: 547-2284	1978-82	147	14.3	181	129	15.3	188	57	15.9	0.86	2.59
	1983	46	12.4	171	49	14.3	172	15	13.1	0.85	2.70
	1984	39	13.1	175	66	14.3	177	16	14.9	0.90	2.55
L. Henderson (Herd B) Minitonas, MB Phone: 547-2284	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	6	15.7	182	7	13.6	201	0	-	-	-
	1984	5	15.2	211	10	15.7	210	0	-	-	-
C. Poiron Somerset, MB Phone: 242-2827	1978-82	18	13.2	185	13	13.0	177	2	12.3	0.81	2.64
	1983	11	12.7	186	1	11.0	201	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	3	19.3	156	6	18.3	164	0	-	-	-
	1984	0	-	-	1	16.0	183	0	-	-	-

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
J. Sawatsky Altona, MB Phone: 324-6279	1978-82	16	15.8	176	27	15.2	180	0	-	-	-
	1983	16	13.1	183	22	14.1	187	0	-	-	-
	1984	5	13.0	161	5	14.6	170	2	12.6	0.95	2.45
R. Shiel Minitonas, MB Phone: 525-4666	1978-82	40	14.6	166	51	16.8	174	18	17.0	0.87	2.55
	1983	0	-	-	0	-	-	0	-	-	-
	1984	12	13.6	169	14	14.1	169	2	14.6	0.93	2.54
B. Tolton Newdale, MB Phone: 849-2146	1978-82	4	13.6	172	8	13.6	158	3	14.8	0.77	2.38
	1983	13	12.2	155	12	13.2	169	0	-	-	-
	1984	26	13.5	165	21	14.6	174	4	18.4	0.80	2.55
LACOMBE											
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	1	14.0	177	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
O. Nicholson Dauphin, MB Phone: 638-7542	1978-82	138	14.5	160	134	15.8	163	10	13.9	0.87	2.59
	1983	46	13.3	155	46	14.8	159	2	12.6	0.90	2.48
	1984	62	13.0	163	54	14.6	164	4	15.7	1.04	2.34
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	1	18.8	193	6	16.0	207	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	1	11.0	216	4	13.8	204	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS: Number Boars Tested	HOME TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	HOME TEST RESULTS: Average Age Adjusted to 90 kg (days)	HOME TEST RESULTS: Number Gilts Tested	HOME TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	HOME TEST RESULTS: Average Age Adjusted to 90 kg (days)	STATION TEST RESULTS: Number Boars Tested	STATION TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	STATION TEST RESULTS: Average Daily Gain (kg/day)	STATION TEST RESULTS: Average Feed Conversion (kg feed/ kg gain)
Westphalia Farms Winnipeg, MB Phone: 757-2719	1978-82	617	17.0	171	709	18.0	174	65	15.6	0.87	2.63
	1983	4	12.0	198	3	13.3	204	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
HAMPSHIRE											
L. Burton Swan River, MB Phone: 734-4311	1978-82	43	11.3	170	42	12.4	172	0	-	-	-
	1983	15	10.5	160	9	12.4	163	0	-	-	-
	1984	5	11.2	171	5	12.2	170	0	-	-	-
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	4	8.9	169	4	9.8	172	0	-	-	-
	1983	4	11.0	151	0	-	-	0	-	-	-
	1984	2	9.5	153	0	-	-	0	-	-	-
Designed Genetics (P. Riese) Selkirk, MB Phone: 482-4941	1978-82	16	11.8	195	15	12.9	188	0	-	-	-
	1983	16	11.9	175	3	13.3	165	0	-	-	-
	1984	29	11.6	192	13	12.3	193	0	-	-	-
R. Floyde McCreary, MB Phone: 835-3495	1978-82	4	12.8	132	5	13.6	141	10	11.7	0.93	2.28
	1983	4	12.3	139	0	-	-	6	12.7	1.05	2.34
	1984	1	9.0	131	0	-	-	10	13.5	1.02	2.30
J. Friesen Altona, MB Phone: 324-6226	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	2	12.5	0.95	2.34

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
R. K. Gorrie Treherne, MB Phone: 723-2575	1978-82	7	14.9	180	9	16.7	189	6	15.5	0.93	2.41
	1983	2	11.5	146	0	-	-	0	-	-	-
	1984	1	11.0	224	0	-	-	2	12.4	0.94	2.18
L. Henderson Minitonas, MB Phone: 547-2284	1978-82	50	13.0	194	31	13.7	199	4	13.7	0.89	2.44
	1983	3	12.3	188	1	13.0	191	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
L. Penner Ste. Anne, MB Phone: 355-4012	1978-82	8	13.0	166	0	-	-	0	-	-	-
	1983	54	12.9	155	32	12.8	167	6	12.0	1.03	2.49
	1984	82	12.0	162	34	13.1	166	2	13.1	0.97	2.42
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	1	14.0	176	0	-	-	0	-	-	-
J. Sawatsky Altona, MB Phone: 324-6279	1978-82	13	12.4	189	15	13.3	189	0	-	-	-
	1983	28	12.0	185	25	13.1	188	1	11.6	0.95	2.48
	1984	0	-	-	7	12.0	188	0	-	-	-
R. Shiel Minitonas, MB Phone: 525-4666	1978-82	65	12.7	160	42	13.6	160	2	12.3	0.90	2.42
	1983	19	10.7	149	16	13.0	156	0	-	-	-
	1984	33	12.1	166	9	12.6	157	2	14.8	1.00	2.52

Breeder and Address	Period	HOME TEST RESULTS: Number Boars Tested	HOME TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	HOME TEST RESULTS: Average Age Adjusted to 90 kg (days)	HOME TEST RESULTS: Number Gilts Tested	HOME TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	HOME TEST RESULTS: Average Age Adjusted to 90 kg (days)	STATION TEST RESULTS: Number Boars Tested	STATION TEST RESULTS: Average Backfat Adjusted to 90 kg (mm)	STATION TEST RESULTS: Average Daily Gain (kg/day)	STATION TEST RESULTS: Average Feed Conversion (kg feed/ kg gain)
University of Manitoba Winnipeg, MB Phone: 474-9383	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	9	9.1	183	11	9.7	177	0	-	-	-
DUROC											
*G. Bessant Wawanesa, MB Phone: 824-2046	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	8	19.1	1.06	2.33
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	7	9.8	149	8	10.7	159	0	-	-	-
	1983	5	11.0	160	1	12.0	142	0	-	-	-
	1984	2	14.5	159	2	15.5	161	0	-	-	-
R. Floyde McCreary, MB Phone: 835-3495	1978-82	8	14.3	147	10	16.6	170	12	13.5	0.96	2.33
	1983	0	-	-	0	-	-	0	-	-	-
	1984	1	12.0	137	0	-	-	0	-	-	-
J. Friesen Altona, MB Phone: 324-6226	1978-82	0	-	-	3	16.6	172	0	-	-	-
	1983	16	12.8	168	23	13.9	189	0	-	-	-
	1984	10	12.0	179	13	12.7	185	0	-	-	-
K. Gorrie Treherne, MB Phone: 723-2575	1978-82	26	17.1	167	31	17.8	174	14	16.0	0.91	2.41
	1983	7	14.0	175	2	16.5	178	4	12.9	0.78	2.40
	1984	0	-	-	0	-	-	2	14.1	0.95	2.20

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
K. Ludlam Reston, MB Phone: 877-3661	1978-82	116	13.0	151	124	14.6	153	12	13.9	0.92	2.41
	1983	47	12.3	159	66	13.2	157	0	-	-	-
	1984	21	12.5	151	37	13.9	158	0	-	-	-
A. Pantel Somerset, MB Phone: 744-2630	1978-82	4	14.3	177	0	-	-	0	-	-	-
	1983	4	13.0	173	0	-	-	1	16.9	1.03	2.61
	1984	0	-	-	0	-	-	0	-	-	-
L. Penner Ste. Anne, MB Phone: 355-4012	1978-82	18	14.8	171	16	15.7	157	0	-	-	-
	1983	49	13.4	165	20	15.1	161	3	14.4	0.89	2.71
	1984	58	12.3	171	45	13.7	165	4	13.5	0.87	2.37
*M. Penner Swan River, MB Phone: 734-4352	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	5	13.0	174	2	13.5	176	0	-	-	-
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	1	19.0	167	7	16.6	191	0	-	-	-
	1983	0	-	-	1	13.0	209	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
J. Thompson Glenboro, MB Phone: 827-2494	1978-82	15	15.0	154	7	17.1	156	0	-	-	-
	1983	5	15.0	156	5	19.8	134	4	13.8	0.79	2.75
	1984	5	16.6	155	2	20.0	155	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS: Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	STATION TEST RESULTS: Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
L. Trowell Govan, SK Phone: 484-4380	1978-82	-	-	-	-	-	-	46	13.2	0.94	2.38
	1983	-	-	-	-	-	-	14	13.7	0.85	2.61
	1984	-	-	-	-	-	-	6	16.3	1.05	2.26
CROSSBRED											
A. Brinkman Grandview, MB Phone: 548-2762	1978-82	3	10.7	200	117	13.2	183	0	-	-	-
	1983	0	-	-	60	12.2	188	0	-	-	-
	1984	2	11.0	176	51	12.1	181	0	-	-	-
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	48	11.5	155	73	13.0	158	8	11.4	0.84	2.81
	1983	16	11.3	166	1	13.0	173	0	-	-	-
	1984	70	10.7	156	15	12.7	153	0	-	-	-
Designed Genetics (P. Riese) Selkirk, MB Phone: 482-4941	1978-82	171	14.7	180	106	16.9	185	0	-	-	-
	1983	142	12.0	174	54	13.2	186	0	-	-	-
	1984	105	11.8	184	61	12.6	182	0	-	-	-
J. Friesen Altona, MB Phone: 324-6226	1978-82	8	13.7	160	43	15.1	175	0	-	-	-
	1983	0	-	-	173	13.3	177	0	-	-	-
	1984	1	13.0	181	84	12.5	174	0	-	-	-
*Geisel Bros. Ochre River, MB Phone: 733-2208	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	0	-	-	19	16.1	161	0	-	-	-

		HOME TEST RESULTS						STATION TEST RESULTS			
Breeder and Address	Period	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
K. Gorrie Treherne, MB Phone: 723-2575	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	2	17.0	169	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
L. Henderson Minitonas, MB Phone: 547-2284	1978-82	1	11.4	186	7	15.6	172	2	10.8	0.91	2.55
	1983	1	16.0	175	1	13.0	163	0	-	-	-
	1984	1	13.0	171	1	13.0	175	0	-	-	-
H. Kjear Stonewall, MB Phone: 467-2618	1978-82	4	14.7	150	4	18.7	196	0	-	-	-
	1983	1	15.0	152	0	-	-	0	-	-	-
	1984	3	11.3	164	4	11.3	174	0	-	-	-
*C. Lachance Elie, MB Phone: 353-2471	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	9	13.5	0.84	2.91
	1984	0	-	-	25	10.5	182	8	12.4	0.93	2.42
L. Manness Domain, MB Phone: 736-4221	1978-82	0	-	-	21	15.4	173	0	-	-	-
	1983	0	-	-	3	11.0	186	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
McLean Bros. Pilot Mound, MB Phone: 825-2366	1978-82	3	16.5	212	595	17.8	210	0	-	-	-
	1983	0	-	-	39	15.7	195	0	-	-	-
	1984	0	-	-	19	15.9	201	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS: Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	STATION TEST RESULTS: Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
Moray Farms (C. G. Peters) New Bothwell, MB Phone: 355-4648	1978-82	0	-	-	426	17.0	164	0	-	-	-
	1983	0	-	-	119	15.0	180	0	-	-	-
	1984	0	-	-	100	14.1	180	0	-	-	-
A. Munroe Gordon, MB Phone: 633-2137	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	0	-	-	0	-	-	-
	1984	4	16.8	201	2	15.5	205	0	-	-	-
O. Nicholson Dauphin, MB Phone: 638-7542	1978-82	0	-	-	20	14.9	159	0	-	-	-
	1983	0	-	-	21	13.8	154	0	-	-	-
	1984	0	-	-	7	15.7	149	0	-	-	-
K. Patterson Sanford, MB Phone: 736-2983	1978-82	0	-	-	663	18.0	186	0	-	-	-
	1983	0	-	-	293	14.7	191	0	-	-	-
	1984	0	-	-	288	15.0	180	0	-	-	-
L. Penner Ste. Anne, MB Phone: 355-4012	1978-82	21	14.2	159	2	11.6	184	0	-	-	-
	1983	44	13.6	148	0	-	-	0	-	-	-
	1984	40	12.8	157	0	-	-	2	11.5	0.98	2.14
C. Poiron Somerset, MB Phone: 242-2827	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	8	11.8	193	17	12.2	203	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
R & T New Century Farms (F. Ronge) Matlock, MB Phone: 389-5340	1978-82	6	14.5	170	42	17.0	196	0	-	-	-
	1983	0	-	-	11	17.5	183	0	-	-	-
	1984	0	-	-	8	14.4	188	0	-	-	-
J. Sawatsky Altona, MB Phone: 324-6279	1978-82	0	-	-	33	15.7	171	0	-	-	-
	1983	17	13.4	184	38	14.6	177	0	-	-	-
	1984	1	14.0	178	33	15.5	174	0	-	-	-
R. Shiel Minitonas, MB Phone: 525-4666	1978-82	2	11.2	148	2	13.8	158	0	-	-	-
	1983	0	-	-	2	13.0	158	0	-	-	-
	1984	2	12.0	155	0	-	-	0	-	-	-
B. Tolton Newdale, MB Phone: 849-2146	1978-84	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	2	15.0	186	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
G. Tolton Newdale, MB Phone: 849-2031	1978-82	0	-	-	0	-	-	0	-	-	-
	1983	0	-	-	1	10.0	192	0	-	-	-
	1984	0	-	-	0	-	-	2	13.0	0.99	2.10
University of Manitoba Winnipeg, MB Phone: 474-9383	1978-82	123	15.0	170	660	16.4	171	0	-	-	-
	1983	2	12.5	161	21	14.0	163	0	-	-	-
	1984	0	-	-	40	13.6	156	0	-	-	-

Breeder and Address	Period	HOME TEST RESULTS						STATION TEST RESULTS			
		Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Gilts Tested	Average Backfat Adjusted to 90 kg (mm)	Average Age Adjusted to 90 kg (days)	Number Boars Tested	Average Backfat Adjusted to 90 kg (mm)	Average Daily Gain (kg/day)	Average Feed Conversion (kg feed/ kg gain)
Westphalia Farms Winnipeg, MB Phone: 757-2719	1978-82	84	14.9	180	79	15.8	177	0	-	-	-
	1983	5	12.2	180	3	13.0	186	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
BERKSHIRE											
W. Collingridge Solsgirth, MB Phone: 859-2320	1978-82	334	11.5	165	374	12.5	170	12	13.5	0.79	2.60
	1983	51	11.2	163	11	11.6	164	0	-	-	-
	1984	32	10.7	163	1	12.0	164	0	-	-	-
SPOT											
L. Manness Domain, MB Phone: 736-4221	1978-82	38	15.0	177	35	15.6	180	0	-	-	-
	1983	26	12.2	174	0	-	-	0	-	-	-
	1984	0	-	-	0	-	-	0	-	-	-
D. Mortenson Govan, SK Phone: 484-4380	1978-82	0	-	-	0	-	-	7	12.8	0.83	2.59
	1983	0	-	-	0	-	-	9	15.0	0.87	2.62
	1984	0	-	-	0	-	-	2	16.1	0.96	2.41
MANAGRA											
University of Manitoba Winnipeg, MB Phone: 474-9383	1978-82	790	14.2	165	1309	16.0	170	0	-	-	-
	1983	202	12.3	155	326	13.6	164	0	-	-	-
	1984	208	11.5	156	284	13.4	159	0	-	-	-

COMMERCIAL HOG

IMPROVEMENT PROGRAM

(CHIP)

CHIP PROCEDURES AND SERVICES

The Commercial Hog Improvement Program (CHIP) began in 1973 and was implemented in the Province's five agricultural regions as follows:

1973 - Interlake

1974 - Central, Eastern, Southwest

1976 - Northwest

The program is aimed at developing commercial producers on a total management approach to swine production. Major emphasis is placed on improving carcass quality and sow productivity.

Ultrasonic Probe Service

CHIP aids in the selection of lean, growthy replacement females through an ultrasonic probe service. Backfat thicknesses are measured by ultrasonic sound-waves at four points over the loin. Measurements are taken when a gilt weighs between 75 kg and 105 kg. The average of the four measurements is adjusted to a standard 90 kg weight. Gilt age is also calculated at the time of weighing and adjusted to obtain the number of days taken to reach 90 kg.

These two performance values are combined into a composite score or selection index. The index allows a producer to compare the tested gilt's combined performance with the average performance of other gilts of the same breed tested in the herd during the last 12 months. Selection indexes greater than 100 indicate above-average performance.

The CHIP ultrasonic probe service was provided by the following people:

	1983		1984	
Individual	Number Visits	Number Gilts Tested	Number Visits	Number Gilts Tested
Roger Berard Livestock Technician Manitoba Agriculture St. Pierre, MB Phone: 433-7749	11	166	30	415
Brian Cotton Livestock Specialist Manitoba Agriculture Brandon, MB Phone: 728-5724	10	89	2	14

Individual	1983 Number Visits	1983 Number Gilts Tested	1984 Number Visits	1984 Number Gilts Tested
M. Deacon Agriculture Canada Winnipeg, MB Phone: 949-2213	1	12	0	0
Hugh Greaves Livestock Technician Manitoba Agriculture Somerset, MB Phone: 744-2013	40	442	37	376
Hector McLean Agriculture Canada Brandon, MB Phone: 728-7597	6	79	0	0
Ole Olsen Livestock Specialist Manitoba Agriculture Swan River, MB Phone: 734-3417	1	14	1	7
Maurice Sigurdson Livestock Technician Manitoba Agriculture Arborg, MB Phone: 376-5212	30	276	23	210

Supplies and Record Forms

The Animal Industry Branch provides record-keeping materials and forms to CHIP participants including:

a) ear notchers for litter and individual identification

b) farrowing calculators

c) a complete binder of permanent record forms that includes inventory listings, as well as management and performance information on individual sows and litters

d) individual sow cards for use in the farrowing barn

e) sow herd record booklets

f) informational factsheets on record-keeping

g) 21-day sow breeding calendars

h) boar service tracking calendars

Management Assistance

Regional staff involved with CHIP assist producers in establishing a record-keeping system and interpreting performance information for selection of gilts. Staff also advise on management practices and new developments in the swine industry.

TABLE 17. NUMBER OF GILTS TESTED BY REGION, 1975-1984

YEAR/REGION	CENTRAL	EASTERN	INTERLAKE	NORTHWEST	SOUTHWEST	PROVINCE
1975	445	98	33	0	316	892
1976	141	77	507	69	125	919
1977	410	339	658	182	206	1795
1978	504	646	365	197	520	2232
1979	820	931	216	89	733	2789
1980	233	840	621	169	620	2483
1981	201	686	520	151	511	2069
1982	416	389	520	90	581	1996
1983	451	166	300	14	142	1073
1984	376	415	210	7	14	1022

TABLE 18. SUMMARY OF CHIP TESTING, 1983

NUMBER PIGS TESTED PER FARM	NUMBER HERDS	PERCENT OF TOTAL HERDS	TOTAL PIGS TESTED	PERCENT OF TOTAL PIGS
Less than 20	8	30	82	8
20 - 50	12	44	409	38
51 - 100	5	19	372	34
101 - 200	2	7	210	20
TOTAL	27		1073	

TABLE 19. SUMMARY OF CHIP TESTING, 1984

NUMBER PIGS TESTED PER FARM	NUMBER HERDS	PERCENT OF TOTAL HERDS	TOTAL PIGS TESTED	PERCENT OF TOTAL PIGS
Less than 20	6	23	67	7
20 - 50	13	50	359	35
51 - 100	6	23	453	44
101 - 200	1	4	143	14
TOTAL	26		1022	

TABLE 20. HOG MARKETINGS OF CHIP HERDS BY AGRICULTURAL REGION, 1983 and 1984.

Herds participating in the CHIP probing service in 1983 and 1984 produced hogs of superior quality compared to the overall Manitoba average. In 1983, the difference in percentage hogs indexing 102 or higher was 12.9%, while in 1984, the difference was 10.5%.

	CHIP PARTICIPANTS				HOG MARKETINGS OF CHIP PARTICIPANTS					
	No. Producers		No. Gilts Tested		No. Marketed ≥ 102 Index		Total No. Marketed		Percent ≥ 102 Index	
REGION	1983	1984	1983	1984	1983	1984	1983	1984	1983	1984
CENTRAL	9	8	451	376	4625	4562	5680	5485	81.4	83.2
EASTERN	6	9	166	415	2321	5723	2707	6727	85.7	85.1
INTERLAKE	8	6	300	210	4916	3594	5798	4086	84.8	88.0
NORTHWEST	1	1	14	7	-	1	-	3	-	33.3
SOUTHWEST	3	2	142	14	8197	539	9116	657	89.9	82.0
TOTAL	27	26	1073	1022	20059	14419	23301	16958	86.1	85.0
								MANITOBA AVERAGE	73.2	74.5

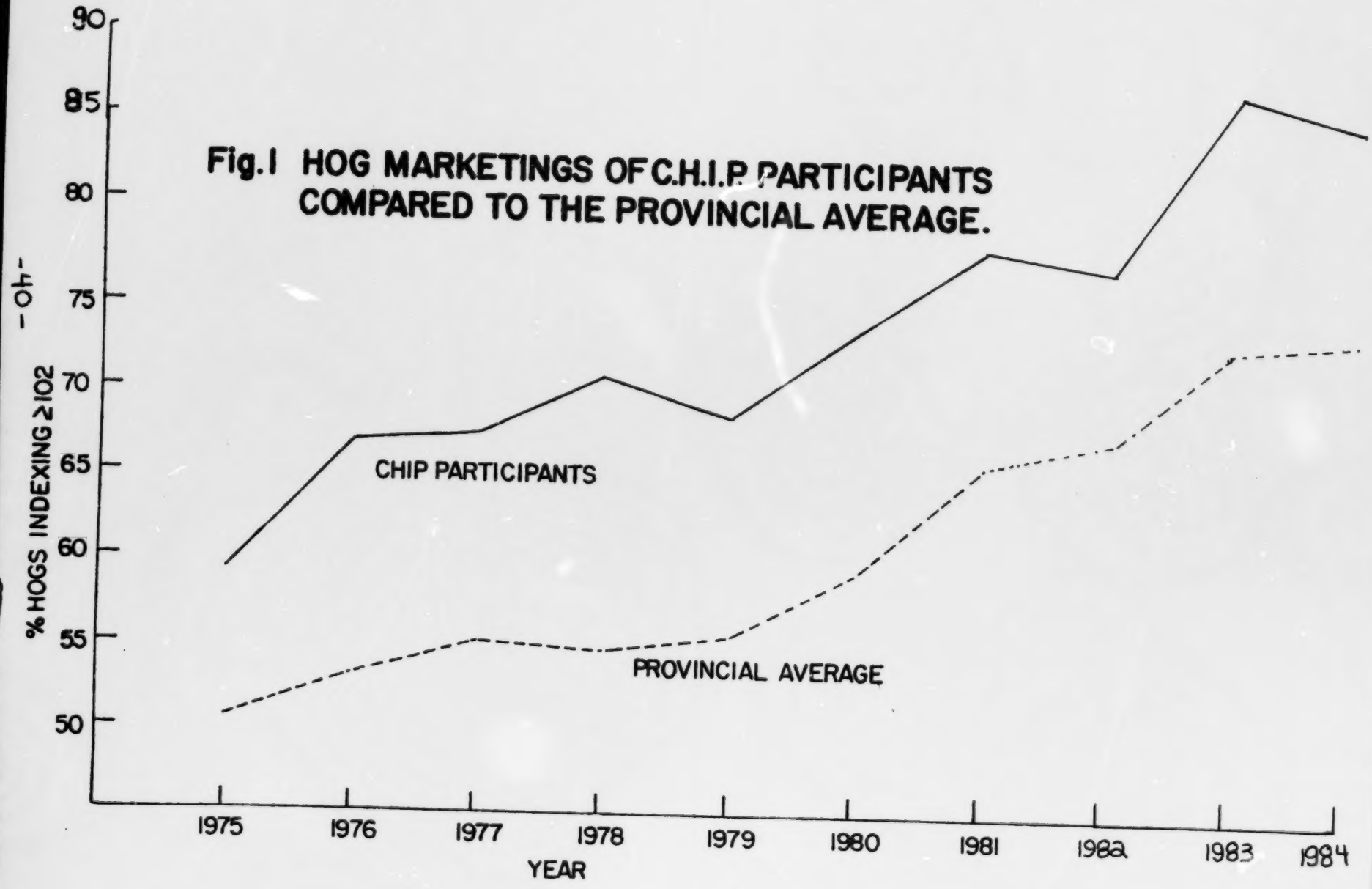
Fig.1 HOG MARKETINGS OF C.H.I.P PARTICIPANTS COMPARED TO THE PROVINCIAL AVERAGE.
% HOGS INDEXING ≥102
90
85
80
75
70
65
60
55
50
CHIP PARTICIPANTS
PROVINCIAL AVERAGE
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
YEAR

TABLE 21. HERDS PARTICIPATING IN CHIP BACKFAT TESTING SERVICE, 1983 & 1984.

PRODUCER	ADDRESS	NUMBER GILTS TESTED 1983	1984
Central Region			
Clearview Farms (V. Rance)	Box 129, Sperling, MB	6	20
E. Eidse	Box 72, R.R.#1, Morris, MB	31	61
Hermart Farms (H. Martens)	Box 48, Rosenort, MB	44	40
R. Holloway	Box 175, Sperling, MB	41	19
J. Isaak	Box 1164, Altona, MB	7	24
D. Naismith	Box 71, Glenboro, MB	86	92
H. Shirtliff	Starbuck, MB	61	0
T & C Farms Ltd.	Box 28, Altamont, MB	72	30
B. Trotter	Box 57, Belmont, MB	103	90
Eastern Region			
A. Bouchard	Box 127, Dominion City, MB	11	0
R. Bourbonnais	R.R. #1, Beausejour, MB	9	53
M. Buss	Box 127, Ste. Anne, MB	0	27
W. Buss	Box 130, Ste. Anne, MB	0	25
G. Carriere	Box 257, St. Pierre, MB	0	14
L. Dueck	Box 81, Elma, MB	38	0
G. Friesen	Box 7, Arnaud, MB	31	22
J. Friesen	Box 6, Arnaud, MB	9	80
V. Penner	Box 7, Elma, MB	0	29
S. Reimer	Gen. Del., Marchand, MB	0	22
J. Toews	Box 5, Elma, MB	68	143
Interlake Region			
M. Barkman	Riverton, MB	25	22
K. Crockatt	Argyle, MB	31	0
Einarson Bros.	Box 74, Arborg, MB	29	13
O. Gonske	Box 7, Grp. 55, S.S.#1, Wpg. MB	48	20
R. Harcus	Stonewall, MB	14	0
Reimer's Farm	Box 406, Fisher Branch, MB	39	45
K. Schackleford	Clandeboye, MB	29	33
T. Vanderzweep	Balmoral, MB	85	77
Northwest Region			
A. Larocque	San Clara, MB	14	0
M. Penner	R.R. #1, Swan River, MB	0	7
Southwest Region			
Newdale Colony	Souris, MB	107	0
L. K. Plett	Box 172, Wawanesa, MB	12	0
L. Plett	Box 11, R.R.#1, Wawanesa, MB	23	6
R. Shwaluk	Oakburn, MB	0	8